

Abstract of the Disclosure

The invention provides isolated HLA DRB1*15-binding peptides consisting of the amino acid sequence set forth as SEQ ID NO:7 with 0-10 amino acids added to either or both ends of the amino acid sequence set forth as SEQ ID NO:7, and an endosomal targeting signal comprising an endosomal targeting portion of human invariant chain Ii or LAMP-1. describes HLA-class II binding peptides encoded by the MAGE-A1 tumor associated gene, as well as nucleic acids encoding such peptides and antibodies relating thereto. The peptides stimulate the activity and proliferation of CD4⁺ T lymphocytes. Methods and products also are provided for diagnosing and treating conditions characterized by expression of the MAGE-A1 gene.